TEACHING GUIDE OF THE SUBJECT: INTRODUCTION TO ECONOMETRICS

1. General data

Subject:	**INTRODUCTION TO ECONOMETRICS**	CODE:	**53317**
Typology:	**MANDATORY**	ECTScredits:	**6**
Grade:	**316 –DEGREE IN ECONOMICS**	Academic course:	**2016-17**
Centre:	**(5)SCHOOL OF ECONOMICS AND BUSINESS SCIENCESALBACETE**	Group(s):	**10**
Course:	**3**	Duration:	**First term**
Main language for teaching:	**Spanish**	Second language:	**English**

Professor's name: VICTOR RAÚL LÓPEZ RUIZ – Group (s) teacher (s): 10

Office	Department	Phone	email	Tutorials timetable
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2.Prerequisites

It is recommended to have passed the subjects of Mathematics and Statistics.

3.Justification in the curriculum, relationship with other subjects and the profession

Introduction to Econometrics course fits into the third year of degree of Economics, as a required subject for Methods and Econometric Models. It is, thus, core content of Econometrics discipline.

It aims to focus learning a few basics of the discipline: phases of econometric research, general typology of econometric models, knowledge and use of available data sources at the macro-economic level, analysis of the economic environment, building models and approach the basic linear regression model.

The course aims to broaden the knowledge and skills of the student that allow professional model building, according to the different specific approaches of econometrics in complex situations of economic reality, in aspects related to the planning and management of economic resources.

Thus, in Econometrics not only it provides a number of methods but also taught to work with them in reality, for what must be complemented by economic theory and quantitative information needed, hence its relationship with courses in the disciplines of Statistics, Mathematics and Economic Theory. Perhaps because of its evolution, parallel to the development of national accounting systems and computer technology, the econometrician must have a shared vision of working with economic variables.

4.Competencies of the degree that the course contributes to achieve

Competences obtained with the subject

E03	Ability to find economic data and select relevant facts.
E05	Ability to contribute to the establishment of strategies which will allow for the efficient allocation of resources, the generation of wealth and a suitable distribution of income.
E06	Application of profesional criteria to the analysis of problems, based on the use of technical tools.
E16	To identify relevant sources of financial information and its content, as well as to acquire skills to derive the important information from the data, otherwise completely unknown to non-professionals.

G01	Possession of the skills needed for continuous, self-led, independent learning, which will allow students to develop the learning abilities needed to undertake further study with a high degree of independence
G02	Ability to understand the ethical responsibility and the code of ethics of professionals working in the field of economics. To know and apply the legislation and recognition of human rights and questions of gender equality.
G03	To develop oral and written communication skills in order to prepare reports, research projects and business projects and defend them before any commission or group of professionals (specialised or non-specialised) in more than one language, by collecting relevant evidence and interpreting it appropriately so as to reach conclusions.
G04	Ability to use and develop information and communication technologies and to apply them to the corresponding business department by using specific programmes for these business areas.
G05	Capacity for teamwork, to lead, direct, plan and supervise multidisciplinary and multicultural teams in both national and international environments so as to create synergies which benefit organisations

5. Objectives or expected learning results

Results from taking the subject

Specific to the subject
- Know the tools and methods for the quantitative analysis of the overall economy.
- Enable the student to solve problems creatively and innovatively.
- Enable the student to work and autonomous learning as well as personal initiative.
- Enable the student to search for information, analysis, interpretation, synthesis and transmission.

Additional findings
- Enable the student to manage statistical sources through ICT and the use of specific software for modeling economic reality.

6.Syllabus

Theme1	ECONOMETRICS MODELS. 1.1. MODELING IN ECONOMY. 1.2. THE METHOD FOR THE CONSTRUCTION OF ECONOMETRIC MODELS.
Theme2	ECONOMIC INFORMATION AND DATA. 2.1. ECONOMIC DATA AND MODELLING. 2.2. SHORT AND LONG TERM TIME SERIES ANALYSIS.
Theme3	CONSTRUCTION OF ECONOMETRIC MODELS. 3.1. LINEAR REGRESSION MODEL I: SPECIFICATION AND ESTIMATION. 3.2. LINEAR REGRESSION MODEL II: HYPOTHESIS TEST AND FORECAST.
Theme4	EMPIRICAL ECONOMETRICS: APPLICATIONS. 4.1. DEMAND MODELS: CONSUMPTION, INVESTMENT, FOREIGN TRADE. 4.2. SUPPLY MODELS: VALUE ADDED. 4.3. LABOR MARKET, WAGES AND PRICES.

7. Activities and methodology

Training activity	Methodology	Competencies	ECTS	Hours	Ev	Man	Rec	Description
Classroom teaching (theory) [Face to face]	Exposition/master class	E03, E05, E06, E16, G01, G04	1.20	30.00	YES	NO	NO	To explain the basics. Master classes are attached to practices with the cooperative method and involve practical exercises and empirical models. The goal is to deepen educational content, eliminating the student can obtain by other means and promoting self-learning.
Classroom teaching (practices) [Face to face]	Cooperative learning	E05, E06, E16, G01, G03, G04, G05	0.67	16.75	Yes	No	No	Project developments, cases, and management software throughout the course, according to the evolution of matter under the direction of Professor.
Classroom teaching (theory) [face to face]	Combination of methods	E03, E06, E16, G01, G04	0.13	3.25	Yes	No	No	Instrumental character. Students acquire the necessary knowledge about access to economic sources and data banks, as well as on the use of economic and econometric software.
Reporting [AUTONOMOUS]	Workgroups	E03 E05, E06, E16, G01, G03, G04, G05	1.20	30.00	Yes	Yes	No	Development project: construction of a single-equation model applied to the economic reality under the direction of Professor. Indispensable for the student to reach the objectives and to obtain a final positive evaluation.
Reporting [AUTONOMOUS]	Case study	E05, E06, G01, G03 AND G04	0.56	14.00	Yes	No	No	Accomplishment of cases and tasks proposed during the course, at least one per block agenda.
Presentation of report or themes [face to face]	Combination of methods	G03 G05	0.04	1.00	Yes	No	No	Presentation of the project for final evaluation.

Activity	Method	Competencies	Credits	Hours	Ev	Man	Rec	Description
Testing online [AUTONOMOUS]	Autonomous work	G01, G03	0.32	8.00	Yes	No	No	Testing by Moodle platform where students can learn what he has learned about the subject, and in which their theoretical and practical knowledge will be validated. It will be developed by the 12th week of the semester.
Forums and debates online [AUTONOMOUS]	Combination of methods	E06, G01-G03	0.32	8.00	Yes	No	No	Forums on the virtual platform, led by Professor but developed by students.
Study or test preparation [AUTONOMOUS]	Combination of methods	E05, E06, E16, G01, G04	1.44	36.00	Yes	No	Yes	Preparatory student work, largely autonomous, for testing successfully.
Group tutorials [face to face]	Directed or supervised work	E03, E06, E16, G01, G04	0.04	1.00	No	--	--	The Professor assigns and validates real economic system that implement the project, revealing the group development guidelines and submission.
Final test [face to face]	Evaluation tests	E05, E06, E16, G01, G03	0.08	2.00	Yes	Yes	Yes	It will consist of two blocks: theoretical issues of reasoning for the student, and practical, in which different exercises on a case are proposed. The day fixed for the final exam is performed.
		Total:	**6.00**	**150.00**				

Total credits of classroom work	2.16	Total hours of classroom work:	54.00
Total credits of autonomous work:	3.84	Total hours of autonomous work:	96.00

Ev:Evaluable training activity
Man:Mandatory training activity
Rec:Recoverable training activity

8.Evaluation criteria

Evaluation system	%	Description
Elaboration of theoretical works	20.00%	Group work on building an econometric model applied to an economic reality. Attention not only to the content but to the correct use of scientific methods and the oral presentation will be given.
Resolution of problems or cases	10.00%	Individual work. Participation and positive outcome of the practical sessions, seminars, tutorials, case ... It will mean 10% of the final grade, requiring a minimum of participation (attendance and non-attendance via Moodle platform).
Progress tests	10.00%	Test of progress that will 10% of the final grade.
Final exam	60.00%	Final exam will be divided into two parts: theoretical and practical, the student will have to overcome.
Total:	**100.00%**	

Criteria of evaluation of the regular call:
The evaluation is based on a continuous system in which the effort and student progress in developing a range of skills are valued.
The test of progress will be made through practical exercises at the end of the semester.
Individual works are cases for delivery according to the school schedule. Participation and positive outcome of the practical sessions, seminars, and tutorials will be valued.

Groupware in evaluating this work attention not only to the content but to the correct use of scientific methods and the oral presentation will be given.

Final test, through the development of two blocks: theoretical issues and practical exercises. To make the average, in the final examination it is necessary to obtain a minimum score of 4 points out of 10 on one side and five on average.

Special features of the extraordinary announcement:

There must be delivered course work (theoretical work) and conducted the exhibition of the same.

Special features of the special call for completion:

There must be delivered course work (theoretical work) and conducted the exhibition of the same.

10.References

Author/s	Title	Editorial	City	ISBN	Year	Description
Calderón Milán, M.J., López Ruiz, V.R. and Tarancón Morán, M.A.	Prácticas de Econometría.	Popular Libros		84-931937-1-3	2001	
Gujarati, Damodar N.	Econometrics	McGraw-Hill Inter-American		970-10-3971-8	2004	
Intriligator, Michael D.	Econometric models, techniques and applications	Fondo de Cultura Económica		968-16-3140-4	1990	
Maddala, G. S.	Introducción to econometrics	Prentice-Hall, Hispanoamericana		968-880-697-8	1996	
Pindyck, Robert S.	Econometrics: models and forecasts	McGraw-Hill		970-10-2925-9	2000	
Pulido San Román, Antonio	Modelos econométricos	Pirámide		84-368-1534-3	2001	